

To be used with:

It All Adds Up to the Versatile Pig

Name _____

Pig By-Products Math

Pigs are raised mainly for meat. Other parts of the pig's body are used to manufacture items, which are called by-products. To discover more about these by-products, fill in the blank words by doing the math problems and using the answer code to fill in the letters.

41	40	19	47	43	17	75	16	33	54	48	30	37	77
Q	P	V	O	U	W	Y	B	A	D	F	G	H	C
53	56	67	18	39	25	27	49	81	36	13	23		
J	K	N	R	L	M	E	S	I	T	Z	X		

- Bones and skin from the pig are used to make gelatin and _____.
 $(6 \times 8) - 12$ $(3 \times 9) = 12$ $(8 \times 3) + 19$ $(3 \times 6) + 9$
- Glycerin is used in making lipstick and _____.
 $(8 \times 8) + 13$ $(2 \times 18) - 18$ $(8 \times 6) - 15$ $12 + (9 \times 7)$ $(7 \times 8) - 9$ $(9 \times 9) - 14$ $9 + (6 \times 5)$
- Glass and fertilizer can be produced from _____.
 $(4 \times 8) - 16$ $18 + 29$ $(9 \times 6) + 13$ $(2 \times 13) + 1$ $50 - (5 \times 5)$ $35 - 8$ $(6 \times 6) - 3$ $(4 \times 9) + 3$
- Dried bones are used to make buttons and _____ dishes.
 $5 + (8 \times 9)$ $54 - 17$ $(3 \times 3) \times 9$ $(8 \times 10) - 13$ $(12 \times 4) - 15$
- Pig pancreas glands are a source of insulin, which is used to treat _____.
 $5 + (7 \times 7)$ $(8 \times 9) + 9$ $(10 \times 3) + 3$ $4 + (4 \times 3)$ $(60/3) + 7$ $(9 \times 2) \times 2$ $(15 \times 2) - 3$ $(7 \times 1) \times 7$
- Because it is like human skin, pig skin is used in treating _____.
 $32 - 16$ $3 + (5 \times 8)$ $25 - 7$ $(9 \times 8) - 5$ $(8 \times 8) - 15$
- Pigs can help humans who have growth problems through the use of their _____.
 $(127 \times 3) + 1$ $55 - 8$ $30 - (2 \times 6)$ $(5 \times 3) + 10$ $(8 \times 8) - 17$ $(33 \times 2) + 1$ $51 - 24$ $1 + (12 \times 4)$
- Pig heart valves have been implanted in human _____.
 18×19 $46 - 19$ $(13 \times 3) - 6$ $(6 \times 6) - 18$ $(90/10) \times 4$ $(49 - 0) \times 1$

Adapted from the Illinois Pork Producers Association, 6411 S. Sixth St., Springfield, IL 62707, (217) 529-3100.

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Answer Key

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